

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :
Shu KOYABASHI : **Mail Stop: PCT**
Serial No. 10/587,078 : Attorney Docket No. 2006_1191A
Filed July 21, 2006 :

METHOD OF ENANTIOSELECTIVE
NUCLEOPHILIC ADDITION REACTION OF
ENAMIDE TO CARBONYL GROUP AND
SYNTHESIS METHOD OF OPTICALLY
ACTIVE α -HYDROXY- γ -KETO ACID
ESTER AND HYDROXYDIKETONE
[Corresponding to PCT/JP2005/001281
Filed January 24, 2005]

THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE
FEE FOR THIS PAPER TO DEPOSIT
ACCOUNT NO. 23-0975.

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicant requests
consideration of the references listed on attached form PTO-1449 and any additional information
identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is
enclosed.

1a. This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the
above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office
Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. This Information Disclosure Statement is submitted
after the events of above paragraph 1a and prior to the mailing date of a final Office
Action or a Notice of Allowance or an action which otherwise closes prosecution in the
application, and thus:
(1) the certification of paragraph 2 below is provided, **or**
(2) the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

1c. This Information Disclosure Statement is submitted:
after the mailing date of a final Office Action or Notice of Allowance or action which
otherwise closes prosecution in the application, and prior to payment of the issue fee, and
thus:
the certification of paragraph 2 below is provided, and
the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

2. It is hereby certified

- a. that each item of information contained in this Information Disclosure Statement
was first cited in any communication from a foreign patent office in a counterpart
foreign application not more than three months prior to the filing of the
Statement, or
- b. that no item of information contained in the Information Disclosure Statement
was cited in a communication from a foreign patent office in a counterpart
foreign application and, to the knowledge of the person signing the certification
after making reasonable inquiry, was known to any individual designated in
§1.56(c) more than three months prior to the filing of the Statement.

3. Consideration of the following list of additional information (including any copending or
abandoned U.S. application, prior uses and/or sales, etc.) is requested.

4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:

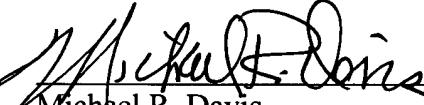
- a full or partial English language translation submitted herewith,
- a foreign patent office search report (International Search Report) (in the English language) of record,
- the concise explanation contained in the specification of the present application at page,
- the concise explanation set forth in the attached English language abstract,
- the concise explanation set forth below or on a separate sheet attached to the reference:

5. A foreign patent office search report (International Search Report) citing one or more of the references is of record.

Respectfully submitted,

Shu KOBAYASHI

By:



Michael R. Davis
Registration No. 25,134
Attorney for Applicant

MRD/pth
Washington, D.C. 20006-1021
Telephone (202) 721-8200
Facsimile (202) 721-8250
October 20, 2006

INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) <i>(Use several sheets if necessary)</i> Date Submitted to PTO: October 20, 2006			ATTY DOCKET NO. 2006_1191A		SERIAL NO. 10/587,078		
			APPLICANT Shu KOBAYASHI				
			FILING DATE July 21, 2006		GROUP		
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AE	2003-260366	9/2003	Japan			
	AF	2003-260363	9/2003	Japan			
	AG						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AH	Ryosuke Matsubara et al., "Copper(II)-Catalyzed Highly Enantioselective Addition of Enamides to Imines: The Use of Enamides as Nucleophiles in Asymmetric Catalysis", <i>Angew. Chem. Int. Ed.</i> , 43, pages 1679-1681, 2004.					
	AI	Yoshitaka Nakamura et al. "Catalytic, Asymmetric Mannich-Type Reactions of α -Imino Esters Bearing Readily Removable Substituents on Nitrogen", <i>Organic Letters</i> , Vol. 5, No. 14, pages 2481-2484, 2003.					
	AJ	Shu Kobayashi et al., "Catalytic, Asymmetric Mannich-Type Reactions of <i>N</i> -Acylimino Esters for Direct Formation of <i>N</i> -Acylated Amino Acid Derivatives. Efficient Synthesis of a Novel Inhibitor of Ceramide Trafficking, HPA-12" <i>Organic Letters</i> , Vol. 4, No. 1, pages 143-145, 2002.					
	AK	Shu Kobayashi et al., "Catalytic Asymmetric Synthesis of α -Amino Phosphonates Using Enantioselective Carbon Carbon Bond-Forming Reactions", <i>J. Am. Chem. Soc.</i> , 126, pages 6558-6559, 2004.					
	AL	Ryosuke Matsubara et al., "Highly Diastereo- and Enantioselective Reactions of Enecarbamates with Ethyl Glyoxylate to Give Optically Active <i>syn</i> and <i>anti</i> α -Alkyl- β -Hydroxy Imines and Ketones", <i>Angew. Chem. Int. Ed.</i> , 43, 3258-3260, 2004.					
	AM	Ryosuke Matsubara et al., "Highly diastereo- and enantioselective reactions of enecarbamates with an aldehyde", <i>Tetrahedron</i> , 60, pages 9769-9784, 2004.					
	AN	Ryosuke Matsubara et al., "Development of Catalytic Asymmetric Reactions Using Enamides as Nucleophiles", <i>The Chemical Society of Japan</i> , page 1220, March 11, 2004.					
EXAMINER				DATE CONSIDERED			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of form with next communication to applicant.